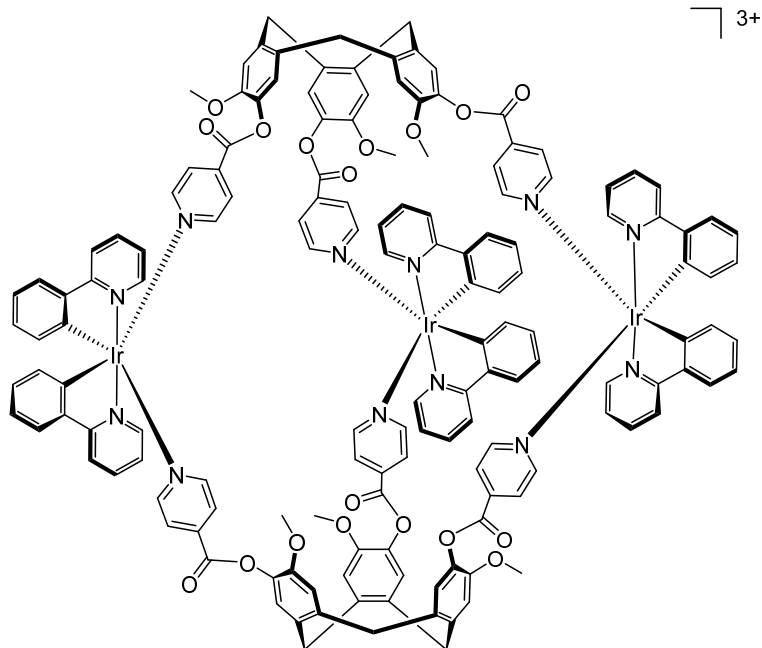
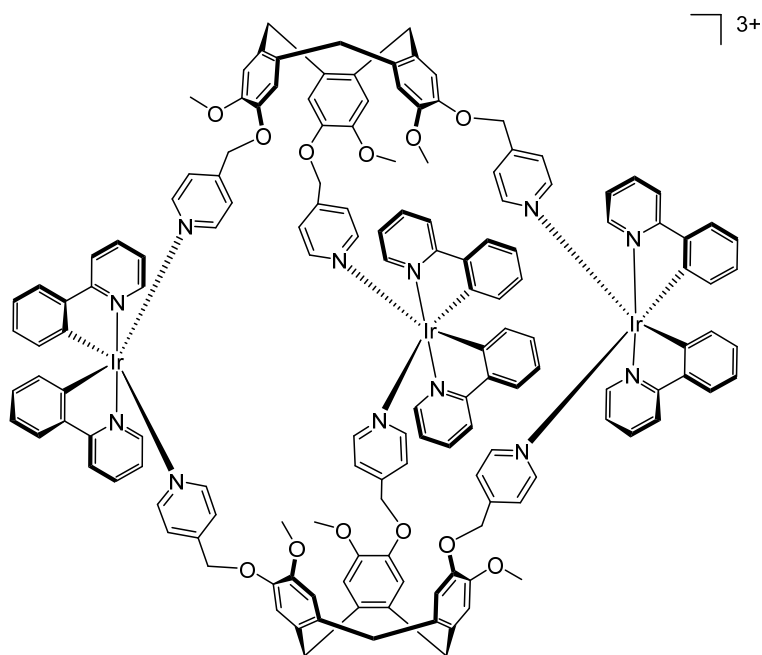


Summary of data/files



Cage 1: $[\{Ir(ppy)_2\}_3(L1)_2]^{3+}$



Cage 2: $[\{Ir(ppy)_2\}_3(L2)_2]^{3+}$

Where (±)-*tris*(isonicotinoyl)-cyclotriguaiacylene = L1, (±)-*tris*(4-pyridyl-methyl)-cyclotriguaiacylene = L2 and ppy = 2-phenylpyridinato. Cages are BF₄ or PF₆ salts as labelled

Spectra.zip

Characterisation spectroscopy

NMR – ^1H Nuclear Magnetic Resonance data

Mass spectra – mass spectrometry data

IR –Infrared spectroscopy

X-Ray structure.zip

Crystal structure of cage 1 determined by single crystal X-ray diffraction

Final refinement files .res (shelx instruction/results file); .hkl data files (pre and post-SQUEEZE); crystallographic information file (.cif) and structure factors (.fcf)

VP294 raw data - Frames and data processing

Photophysicsplus.zip

Absorption and emission spectra for cage 1 and cage 2

Microanalysis data

Chromatogram for separation of L1 = (\pm)-*tris*-(isonicotinoyl)cyclotriguaiacylene